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GRANT PRIZES FOR SCIENTIFIC, INDUSTRIAL, CULTURAL ACHIEVEMENTS

The Dimitrov Prize granted by the Council of Ministers for outstanding achievements in the fields of science, invention, art, and literature, included the following winners:

The first prize of 400,000 leva for outstanding accomplishments in science has been awarded to:

1. Academician Prof Georgi Stefanov Nadzhakov, for his work in experimental physics, especially in electrometry, photoelectric effects, and the discovery of a new effect in photoelectrets.

2. Academician Prof Kiril Atanasov Popov, for his work in mathematics, especially in the field of celestial mechanics (movements of the small planet Hecuba), external ballistics, and integral equations.

3. Academician Prof Nikola Dimitrov Obreshkov, for his work in mathematics, especially for original contributions on the square in algebraic equations, zeros in integral functions, the adding of divergent series, the theory of probability, and diophantine approximations of assymptomatic values and derivative functions.

The second prize of 200,000 leva was granted to:

1. Prof Vladimir Kirilov Khristov, for his work on the Gauss-Kruger coordinate in geodesy.

2. Prof Ekim Stefanov Bonchev, for his survey of Bulgarian stratigraphy and tectonics, and for the geological survey of some dam projects.

3. Academician Strashimir Georgiev Dimitrov, for his work on magmatic and metamorphic rocks throughout Bulgaria.

The winner of the first prize in the field of medicine was Academician Prof Konstantin Mikhaylov Pashev, for his work in ophtalmology and remarkable research on tumors of the eye, trachoma, and eye tuberculosis.

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Winner of the second prize was Prof Vladimir Nestorov Markov, for his work in serology and immunology, and for research on epidemics such as typhoid fever, relapsing typhoid fever, etc.

In the field of agriculture, winners of the first prize included:

1. Dr. Kiril Pavlov Zarev, for creating a new type of rye, "Sofia 59," and for research on potatoes.

2. Prof Stefan Angelov Dobrev, for his work in veterinary medicine, especially for the improvement of antianthrax and antitetanus serums, and for his successful work in the fight against rinderpest.

3. Prof Khristo Stefanov Daskalov, for the production of the new tomato types; Plovdiv Preserve, Plovdiv Preserve p x Bison, and No 11 x Bison, as well as for his books on vegetable production.

Winners of the second prize included:

1. Prof Vasil Stoyanov Bolgradov, for promoting the first pitch extraction from Bulgarian pine forests.

2. Prof Dimitur B. Dimitrov for creating three new tobacco types: Endzhe No 5, Rila No 3, and Saakhabin, and for establishing a new method and mechanism for the graphic reproduction of tobacco leaves, plants, etc., which does away with herborization, photography, and sketching.

Winner of the third prize of 100,000 leva was Ivan Nikiforov Chenchev, for the practical adaptation of the following biochemical preparations: the crystal violet vaccine used against hog pest; the bivalent and trivalent serum used against hog pest and erysipelas and the same diseases affecting suckling pigs, and finally, the active apathogenic serum against chicken pest.

First-prize winners in the field of invention and rationalization included:

1. Geragos Kirkorov Elmadzhian, foreman of the Vulcan plant in Stalin, for the invention of hand-operated metal-cutting tools, which contributed to a saving of 8,100,000 leva yearly.

2. Yordan Mikhaylov Ivanov, instructor of the Plovdiv railyard, for: (a) the improvement of stuffing boxes on locomotives, (b) the invention of a new, hand-operated hydraulic press for lifting locomotive grates, (c) the conversion of stationary locomotive grates into movable grates, (d) the improvement of valve sections.

Second-prize winners included:

1. Engr Emil Todorov Filipov, from the Vulkan cement factory in Dimitrovgrad, for the technical adaptation of a generator from the old power station into an asynchronous motor of 3,000 rpm reaching a daily production of 900 kilowatts of power, valued at 23 billion leva yearly.

2. Kiril Vasilev Yordanov, electrician of the Elprom high-tension plant, for: (a) uninterrupted, concentric winding of transformers of 800 kilovolt-amperes and up, thereby providing a considerable economy of supplies (lead, power, etc.); (b) reducing the time required for assembling frame bobbins by 50 percent; (c) improving the method of cooling transformers and increasing their durability; and (d) introducing a triple insulation, thus saving three times the amount of power and working time.

3. Metodi Ivanov Videnov, for exceeding the sowing norm which provides for 40 decares daily, by sowing 1,360 decares in 22 days.

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4. Panayot Khristov Daskalov, for improving the manufacture of fruit marmalade, tomato juice, and grape juice, and for preparing the new vitamin concentrate "Vitacolor."

5. Engineers Stefan Peev Palazov and Boris Andreev Popov, from the Tsvetmetprom (nonferrous industry) State Industrial Works, for the production of a tin-bronze alloy (glyco), and a composition for heavy-duty bearings such as are used in Diesel motors, turbines, railroad cars, etc. The savings are calculated to reach hundreds of millions of leva.

Winners of the third prize included Engineers Kalbakov and Vasileva, for the production of an emulsified locomotive oil which fully replaces natural cylinder oil and effects a 50 percent saving in oil imports.

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